

Fig. 1a

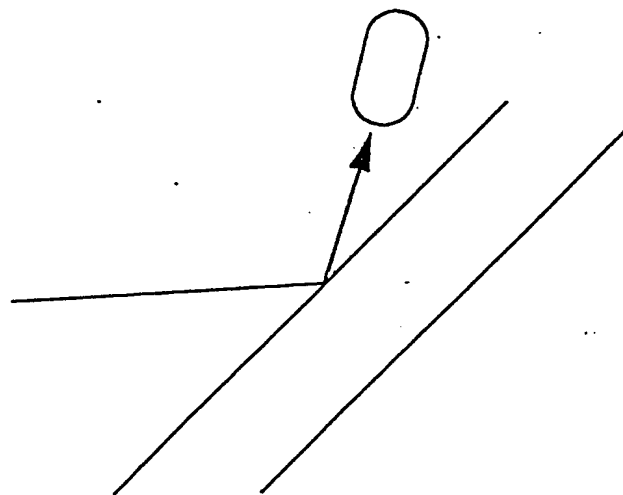


Fig. 1b

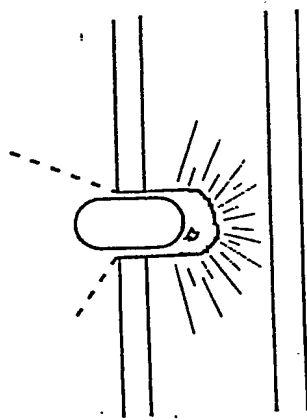


Fig. 1c

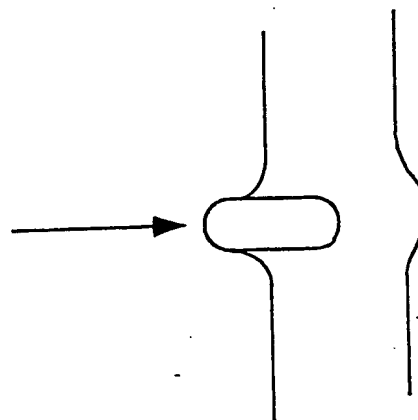


Fig. 1d

Test No.	Target			Areal Density (g/cm ²)	FS ^b : Before Impact			FS: After Penetration			Specific Energy Absorbed ^c (J/g/cm ²)
	Material(s)	Mesh (Yarns/in.)	Thickness per Ply (in.)		Mass (g)	Velocity (m/s)	K.E. (J)	Velocity (m/s)	K.E. (J)	K.E. Lost (%)	
20	Zylon	30X30	≈0.006	1	25	79	78	61.5	47.5	30.5	2346
26	Zylon	30X30	≈0.006	1	25	82.5	85	63	49.5	34.5	2654
23	Zylon	30X30	≈0.006	1	25	80	80	35.5 ^f	20 ^f	60	1366
	UHMW Polyethylene Felt		≈0.13	1							
22	Zylon	30X30	≈0.006	1	25	82	84	Did not Penetrate ^g	84	100	≥1123
	UHMW Polyethylene Felt		≈0.13	2							

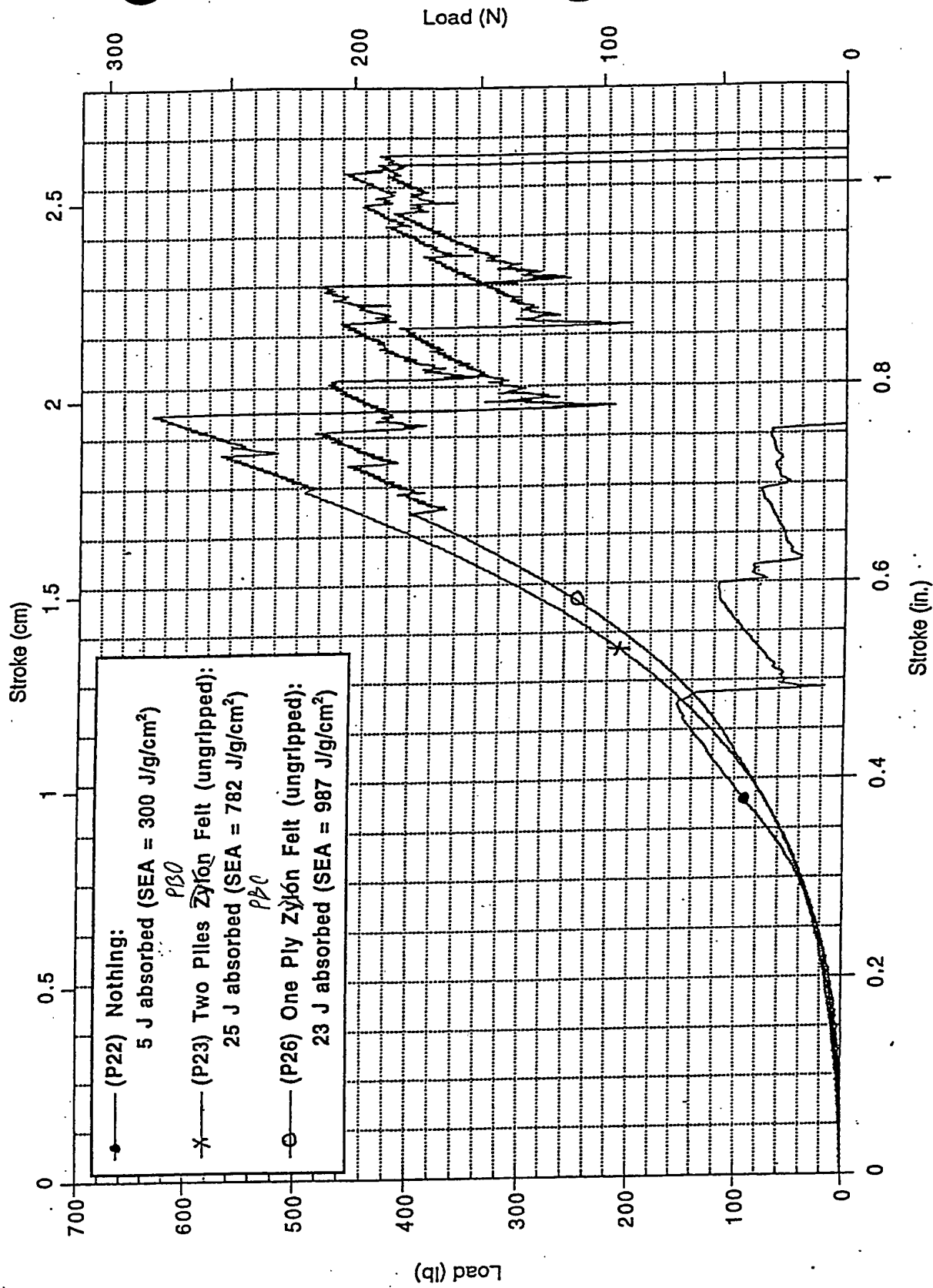
^b FS means fragment simulator.

^c Specific energy absorbed (SEA) is defined as energy absorbed per unit areal density.

^f The impactor did not penetrate the felt; however, the impactor, surrounded by the felt layer, completely penetrated the fabric.

^g Only partial penetration was obtained in this test—the impactor, surrounded by the felt, remained lodged in the hole in the fabric.

Fig. 2



000040 254460

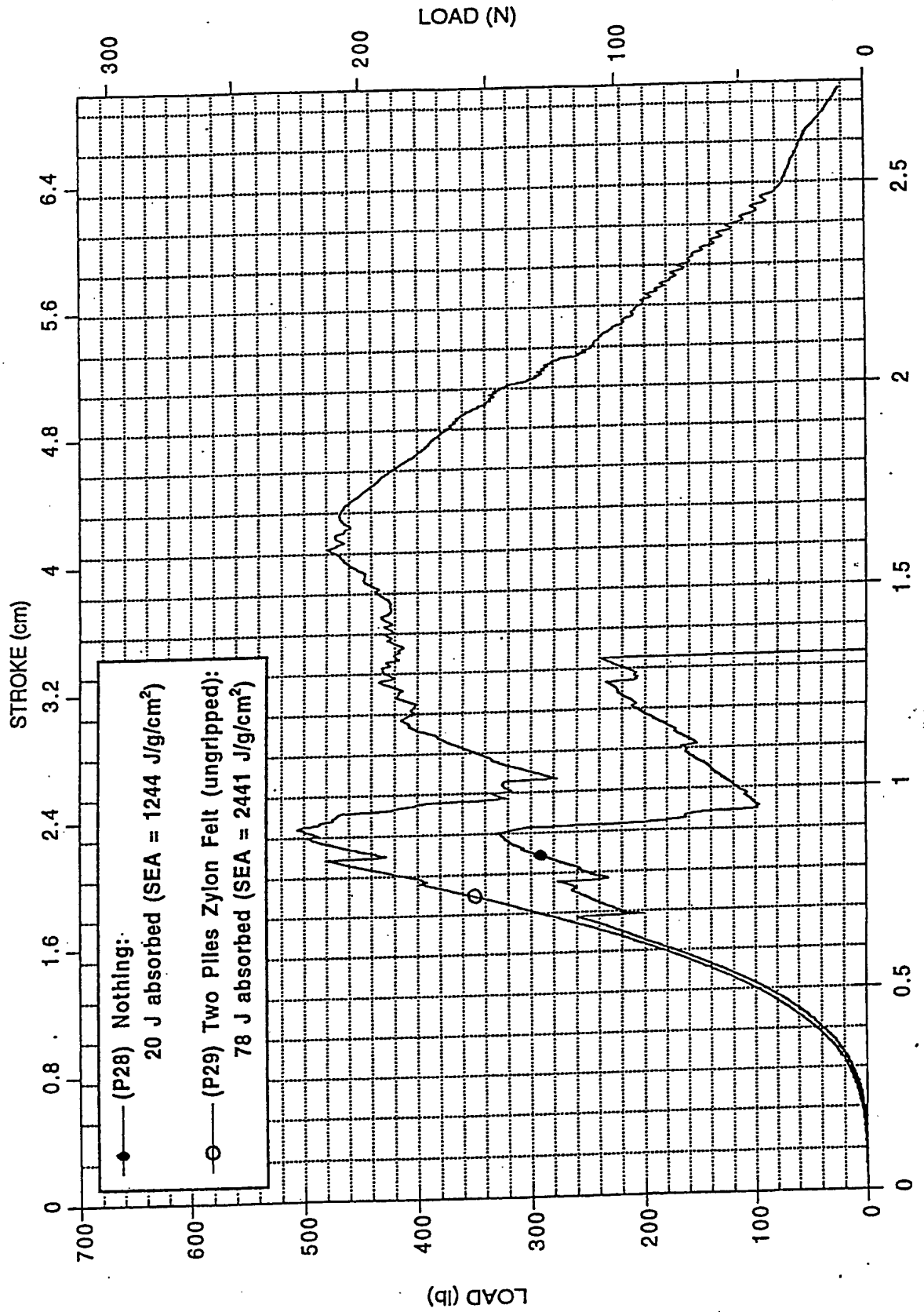


Fig. 6

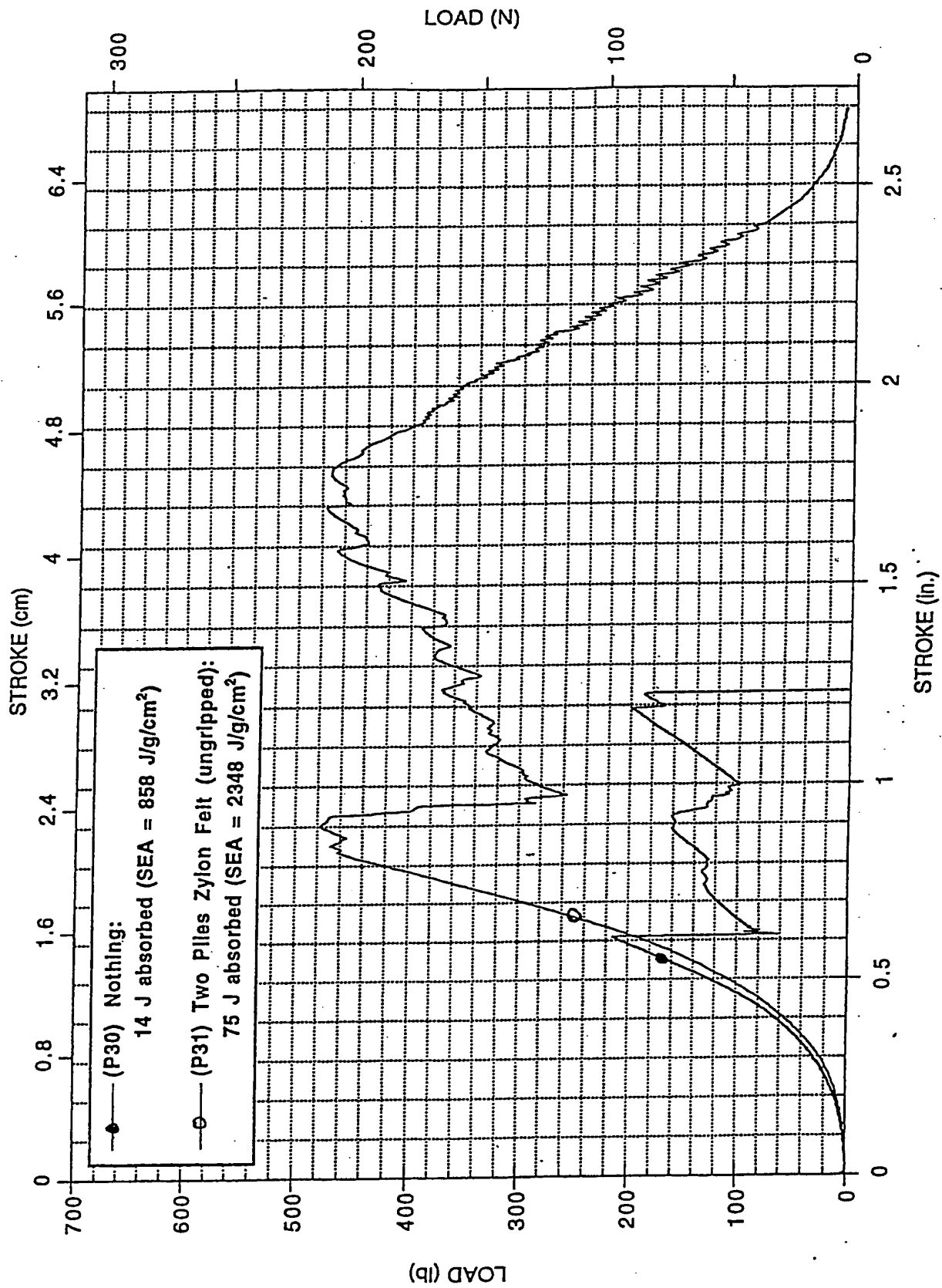


Fig 7

2

000040 224450

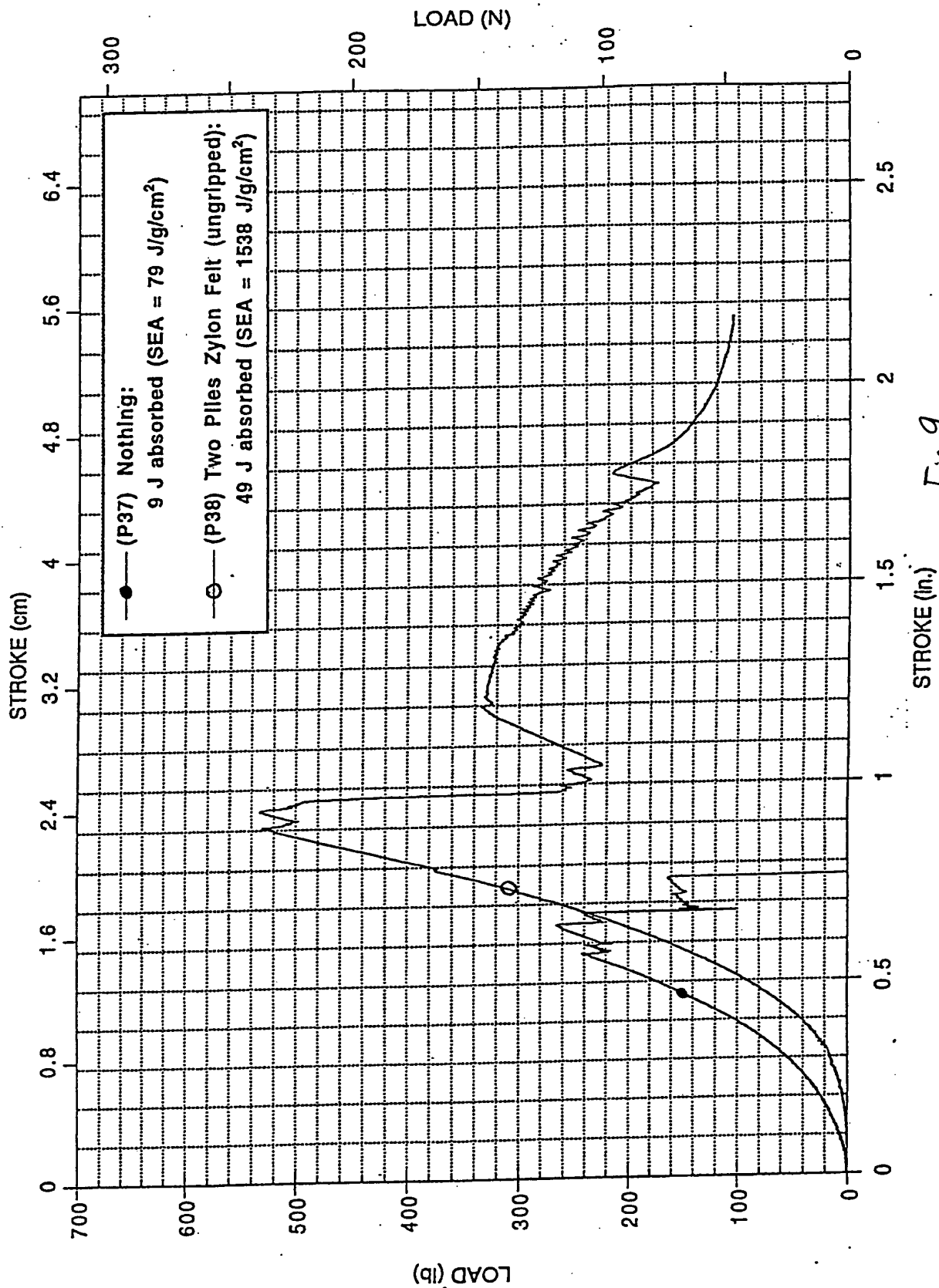


Fig. 9

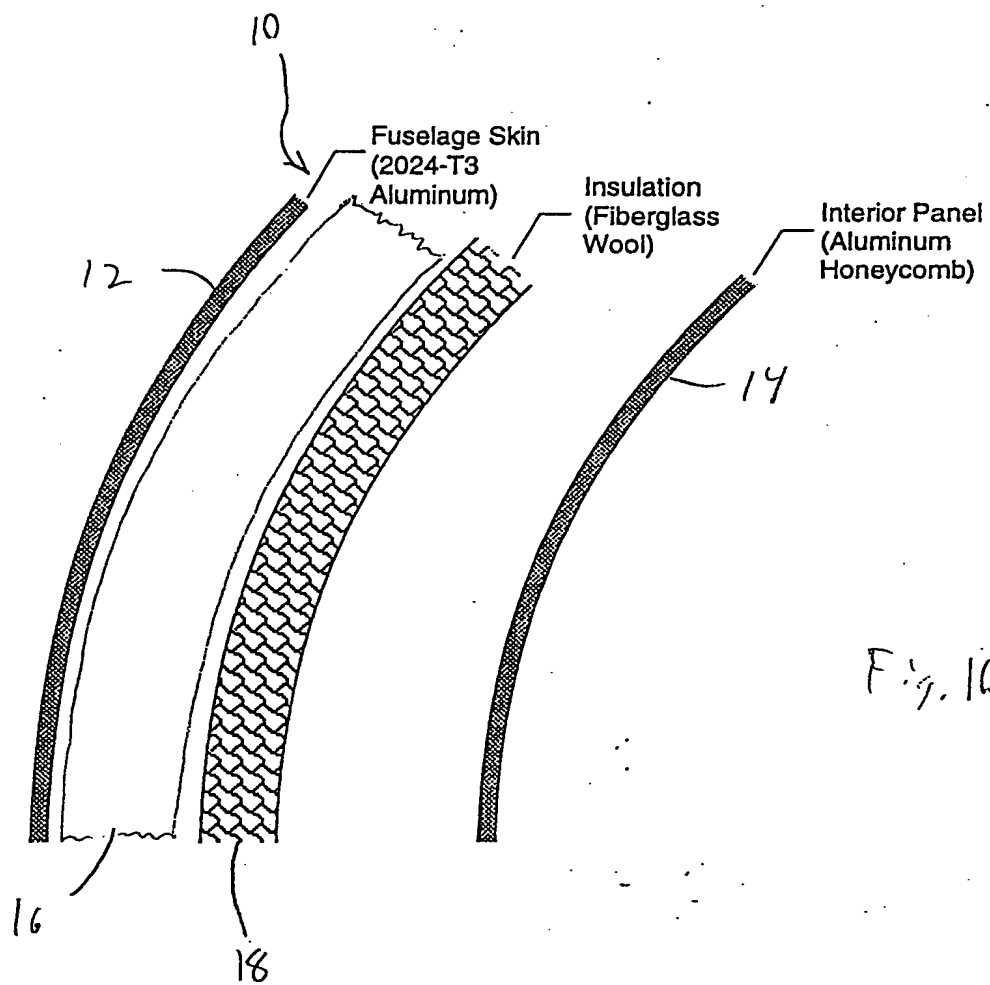


Fig. 10

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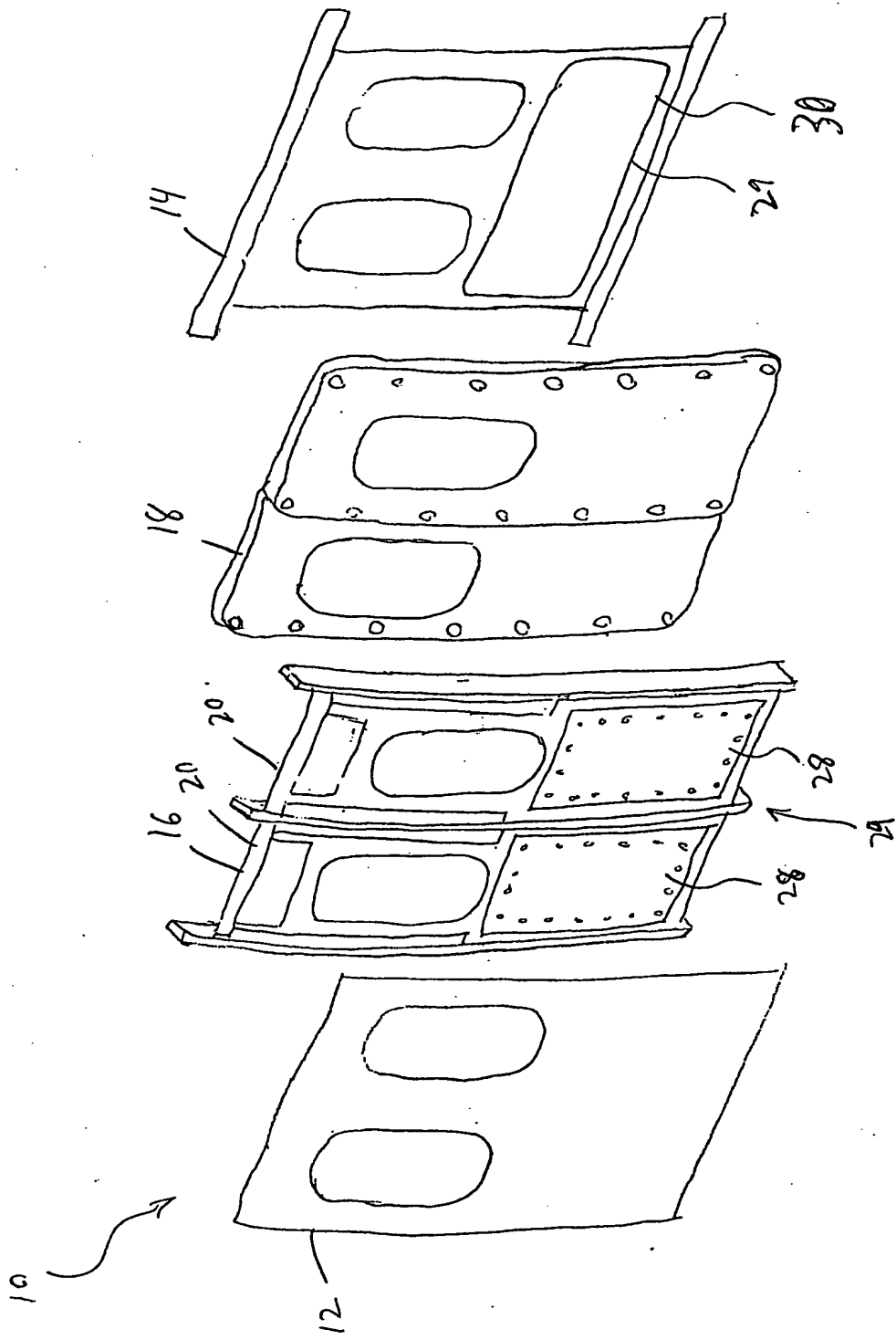


Fig. 12

000040 2564660

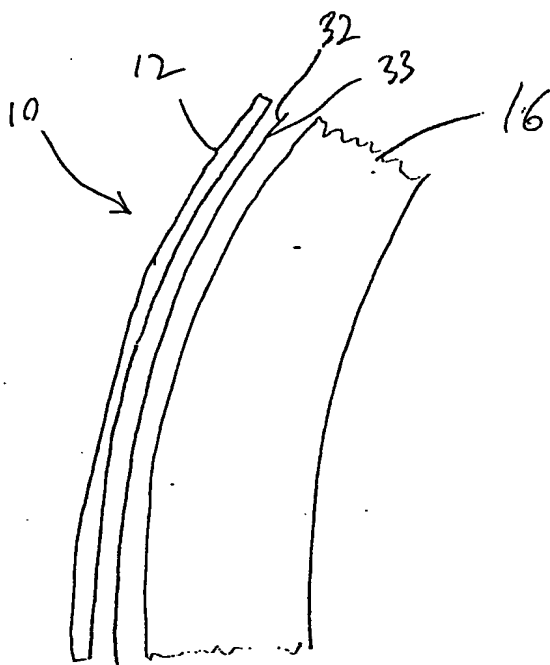


Fig. 13

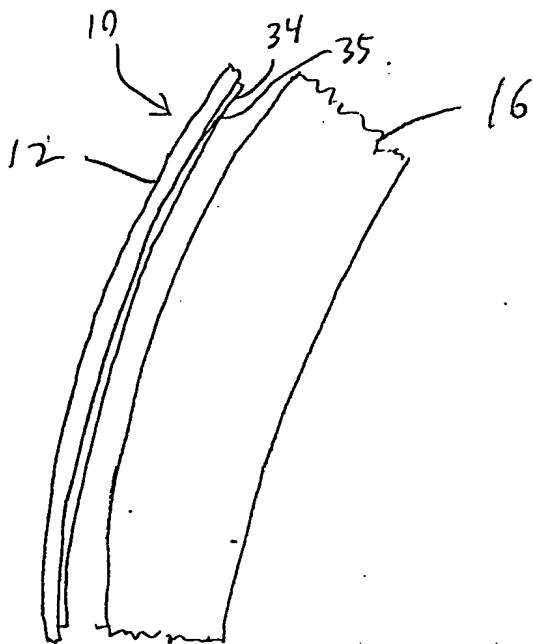


Fig. 14

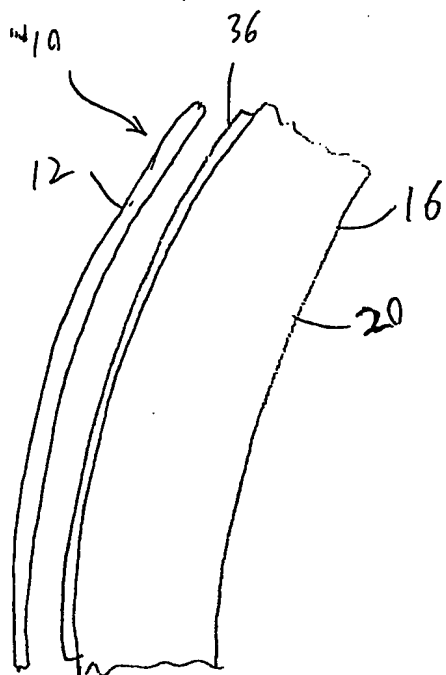


Fig. 15

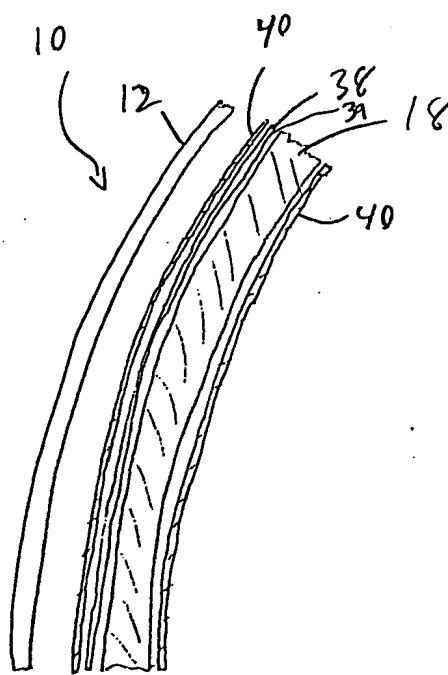
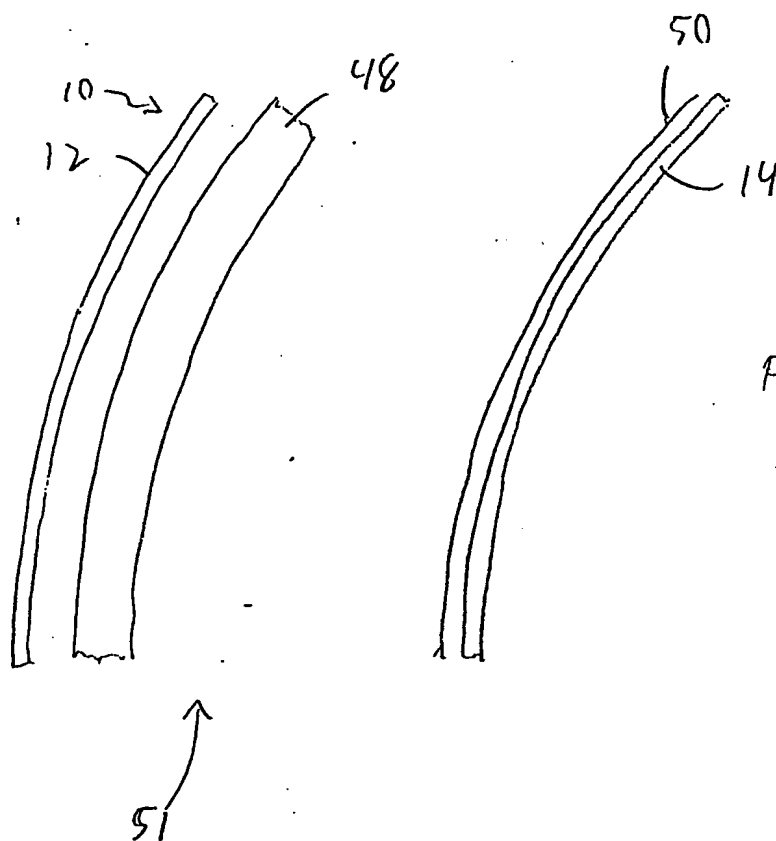
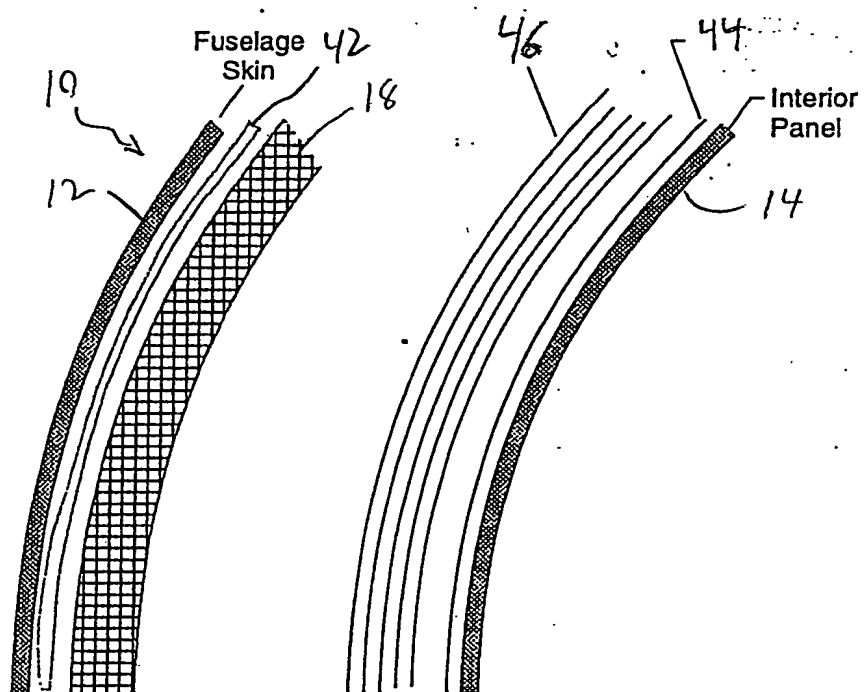


Fig. 16



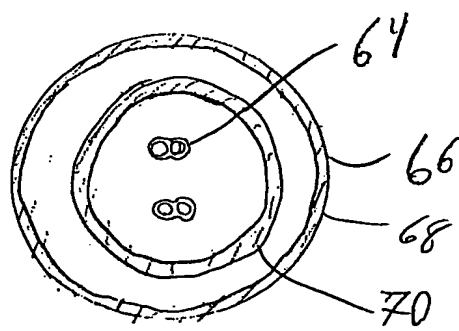
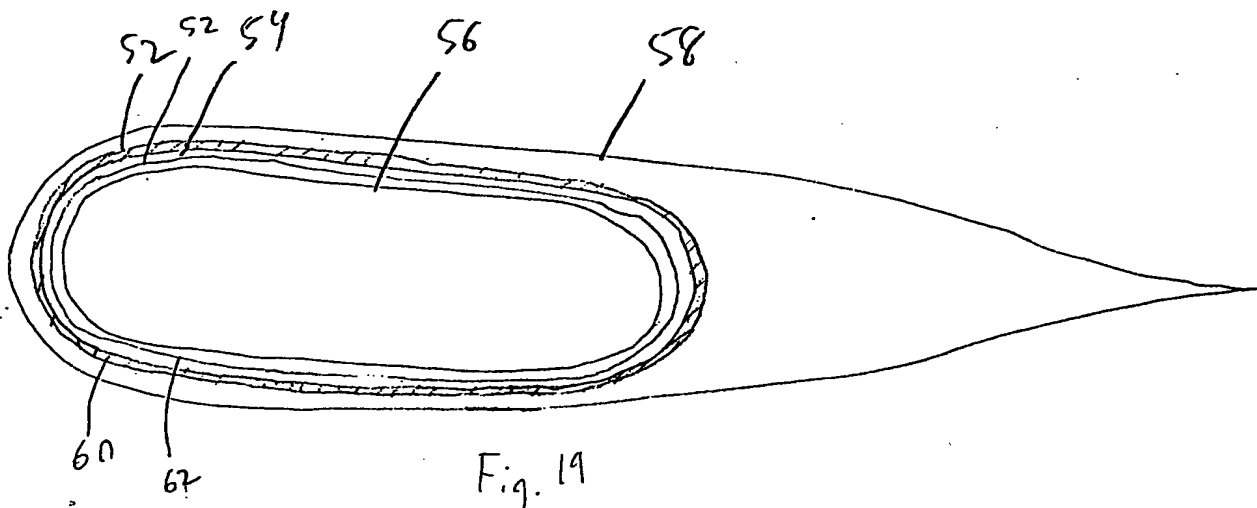


Fig. 20

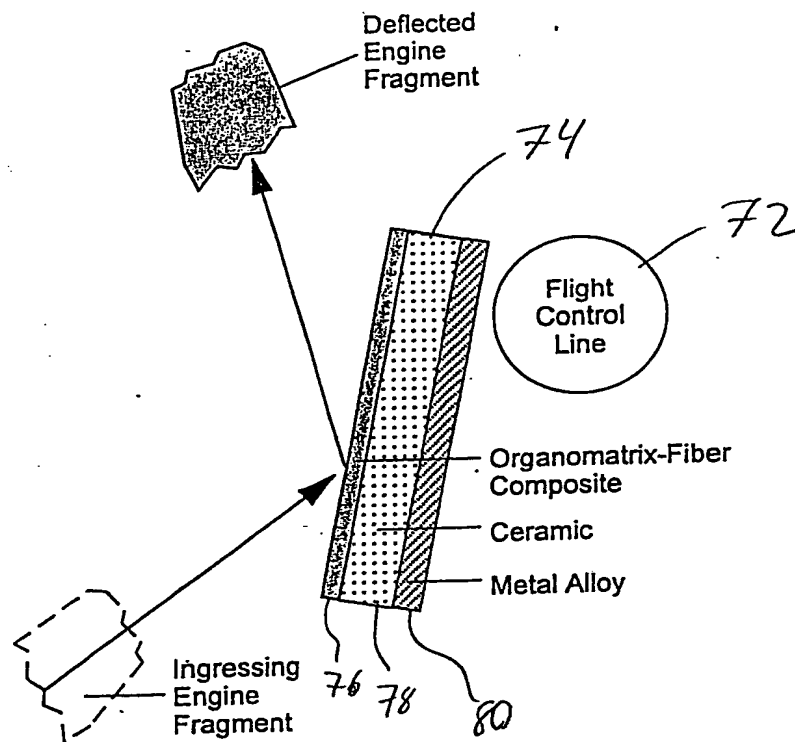


Fig. 21

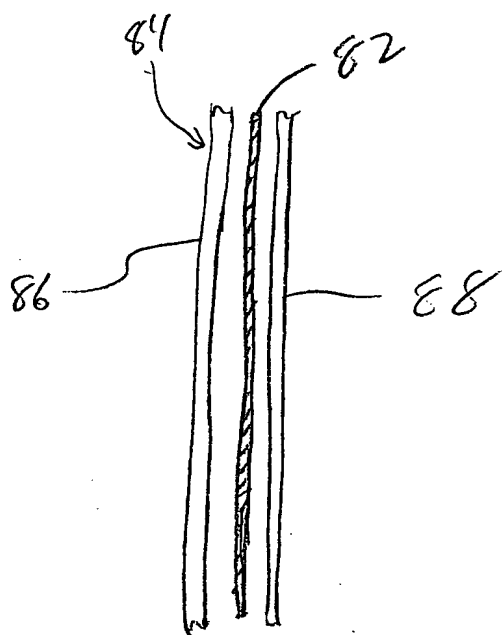


Fig. 22

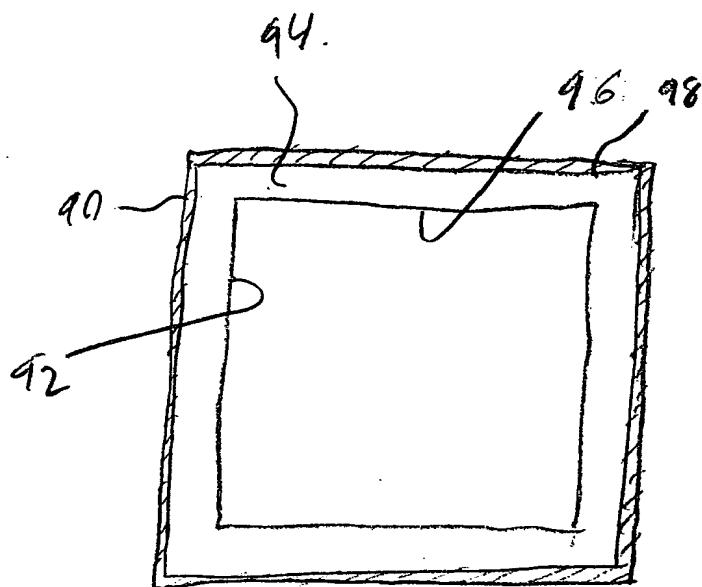


Fig. 23

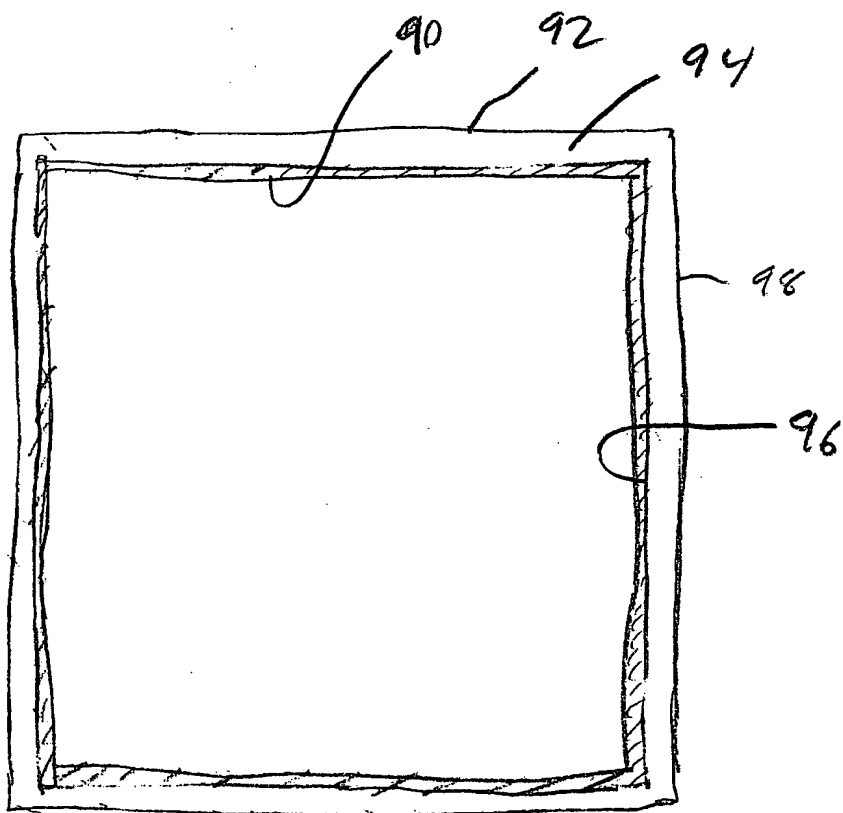


Fig 24

Fig 25